Physica C 171 (1990) 583–592
North-Holland

Author Index to Volume 171

Aarnink, W.A.M., see J. Gao 171 (1990) 126
Abd-El-Hamed, M.O., see R. Wördenweber 171 (1990) 1
Abrashev, M.V., see V.G. Hadjiev 171 (1990) 257
Adachi, H., see Y. Ichikawa 171 (1990) 121
Adachi, S., K. Mizuno, K. Setsune and K. Wasa, Synthesis of Tl–Ba–Ca–Cu–O ceramics showing Meissner effect over 125 K 171 (1990) 543
Adrian, F.J., Semiempirical structural model of the electric field gradients at oxygen nuclei in $YBa_2Cu_3O_7$ 171 (1990) 505
Adrian, H., see C. Tomé-Rosa 171 (1990) 231
Aharoni, E., G. Koren and U.P. Oppenheim, Infrared emission spectroscopy of YO in the laser ablation deposition process of $YBa_2Cu_3O_{7-\delta}$ thin films 171 (1990) 37
Alloul, H., T. Ohno, H. Casalta, J.F. Marucco, P. Mendels, J. Arabski, G. Collin and M. Mehbod, Antiferromagnetism in $YBa_2Cu_3O_{6+x}$: Ga and Zn substitutions I. ^{89}Y NMR determination of the Néel temperature 171 (1990) 419
Alloul, H., see P. Mendels 171 (1990) 429
Alvarez, G., G.J. Russell and K.N.R. Taylor, Chaotic behaviour of variable thickness bridges fabricated from YBCO 171 (1990) 415
Amoretti, G., see E. Buluggiu 171 (1990) 271
Andrikidis, C., see N. Savvides 171 (1990) 181
Anlage, S.M., see C.B. Eom 171 (1990) 354
Arabski, J., see H. Alloul 171 (1990) 419
Arabski, J., see P. Mendels 171 (1990) 429
Asano, H., see R. Yoshizaki 171 (1990) 315
Aubel, J.L., see B. Roughani 171 (1990) 77

Barriquand, F., P. Odier and D. Jérome, ^{17}O NMR on a $YBa_2Cu_3O_{7-\delta}$ single crystal 171 (1990) 348
Beskrovnyi, A.I., M. Dlouhá, Z. Jirák and S. Vratislav, Study of the modulated structure of $Bi_2(Sr,Ca)_3Cu_2O_{8+y}$ in the range 8–920 K 171 (1990) 19
Boháček, P., J. Prachařová, Sv. Civiš, H. Šíchová, F. Fendrych, B. Trunda, L. Dobiášová and V. Valvoda, Composition of phases and phase mixtures of the Bi–Sr–Ca–Cu–O system 171 (1990) 108
Bordet, P., S.-W. Cheong, Z. Fisk, Th. Fournier, J.L. Hodeau, M. Marezio, A. Santoro and A. Varela, Structural studies of the T*-phases $(La, Tb, Pb)_2CuO_4$, $(La, Tb, Sr)_2CuO_4$: structural transition in $(La, Tb, Pb)_2CuO_4$ 171 (1990) 468
Bowden, G.J., see S.X. Dou 171 (1990) 293
Bowden, M.E., see J.L. Tallon 171 (1990) 61
Bozukov, L.N., see V.G. Hadjiev 171 (1990) 257
Braun, M., P. Buszka, T. Motylewski, W. Przydróżny and C. Śliwa, Vibration frequency and height of a magnet levitating over a type-II superconductor 171 (1990) 537
Bravman, J.C., see C.B. Eom 171 (1990) 354
Bringley, J.F., see I.-S. Yang 171 (1990) 31

Brown, I.D., see J.D. Jorgensen 171 (1990) 93
Buckley, R.G., see J.L. Tallon 171 (1990) 61
Buluggiu, E., A. Vera and G. Amoretti, *H*-modulated microwave absorption and resistive transition in the high-T_c superconductor $YBa_2Cu_3O_7$ 171 (1990) 271
Burns, G., see I.-S. Yang 171 (1990) 31
Buszka, P., see M. Braun 171 (1990) 537

Casalta, H., see H. Alloul 171 (1990) 419
Chan, C.C., see A. Nath 171 (1990) 406
Chandrachood, M.R., D.E. Morris and A.P.B. Sinha, Phase diagram and new phases in the Y–Ba–Cu–O system at high oxygen pressure 171 (1990) 187
Chaplot, S.L., see N. Choudhury 171 (1990) 567
Chen, W., see S. Sengupta 171 (1990) 174
Cheong, S.-W., see P. Bordet 171 (1990) 468
Choudhury, N., K.R. Rao and S.L. Chaplot, Phonon dispersion relation and density of states in La_2CuO_4 and La_2NiO_4 171 (1990) 567
Chourey, A.G., see R. Pinto 171 (1990) 131
Civiš, Sv., see P. Boháček 171 (1990) 108
Claus, H., S. Yang, A.P. Paulikas, J.W. Downey and B.W. Veal, Atomic short-range order in oxygen deficient $YBa_2Cu_3O_{7-\delta}$ 171 (1990) 205
Collin, G., see H. Alloul 171 (1990) 419
Collin, G., see P. Mendels 171 (1990) 429
Collocott, S.J., see N. Savvides 171 (1990) 181
Crepeau, R.H., see R. Durny 171 (1990) 401
Crisan, M., Disorder effects and magnetic fluctuations in high-T_c superconductors 171 (1990) 498

Dabrowski, B., see J.D. Jorgensen 171 (1990) 93
Dacol, F.H., see I.-S. Yang 171 (1990) 31
Davis, R.L., see J.L. Tallon 171 (1990) 61
De Jongh, L.J., see S.I. Mukhin 171 (1990) 42
Dlouhá, M., see A.I. Beskrovnyi 171 (1990) 19
Dobiášová, L., see P. Boháček 171 (1990) 108
Dou, S.X., H.K. Liu, J. Wang, K.H. Song and G.J. Bowden, Magnetic properties of Bi–Pb–Sr–Ca–Cu–O fabricated by various techniques 171 (1990) 293
Dousek, F.P., Some aspects of the existence of trivalent copper in $YBa_2Cu_3O_{7-x}$ superconductors and related corrosion phenomena 171 (1990) 156
Downey, J.W., see H. Claus 171 (1990) 205
Dulcic, A., see R. Durny 171 (1990) 401
Duraj, R., see K. Łatka 171 (1990) 287
Durny, R., A. Dulcic, R.H. Crepeau, J.H. Freed and P. Kus, Non-resonant microwave absorption in high-T_c thin films 171 (1990) 401
Dürrler, M., see A. Zibold 171 (1990) 151

Eom, C.B., J.Z. Sun, B.M. Lairson, S.K. Streiffer, A.F. Marshall, K. Yamamoto, S.M. Anlage, J.C. Bravman, T.H. Geballe, S.S. Laderman, R.C. Taber and R.D. Jacowitz, Synthesis and properties of $YBa_2Cu_3O_7$ thin films grown in situ by 90° off-axis single magnetron sputtering 171 (1990) 354

Erb, A., see A. Zibold 171 (1990) 151
Erle, A. and G. Güntherodt, Influence of cobalt substitution on the Raman spectrum of $YBa_2Cu_3O_{7-\delta}$ 171 (1990) 216

Faigel, G., see A. Jánossy 171 (1990) 457
Fendrych, F., see P. Boháček 171 (1990) 108
Fisk, Z., see P. Bordet 171 (1990) 468
Flower, N.E., see J.L. Tallon 171 (1990) 61
Fournier, Th., see P. Bordet 171 (1990) 468
Freed, J.H., see R. Durny 171 (1990) 401
Freeman, P.F., see J.W. Loram 171 (1990) 243
Fuess, H., see G. Miehe 171 (1990) 339
Fujikami, J., see R. Yoshizaki 171 (1990) 315
Fukuda, T., see T. Kajitani 171 (1990) 491

Gantmakher, V.F., N.I. Golovko, I.G. Naumenko, A.M. Neminsky and A.V. Petinova, Temperature dependence of the magnetic field penetration depth in $YBa_2Cu_3O_{7-\delta}$ measured on ultra fine powder 171 (1990) 223
Ganzha, Yu.V., see Yu.A. Ossipyan 171 (1990) 311
Gao, J., W.A.M. Aarnink, G.J. Gerritsma and H. Rogalla, Controlled preparation of all high-T_c SNS-type edge junctions and DC SQUIDs 171 (1990) 126
Gao, W. and J.B. Vander Sande, Synthesis of superconducting microcomposite coatings by melt-dipping and oxidation of Bi–Pb–Sr–Ca–Cu–Ag metallic precursor alloys 171 (1990) 69
Gartstein, Yu.N., On the superconductivity of two-dimensional bosons with attraction in the mean-field approximation 171 (1990) 87
Geballe, T.H., see C.B. Eom 171 (1990) 354
Gerdanian, P., see C. Picard 171 (1990) 321
Gerritsma, G.J., see J. Gao 171 (1990) 126
Geserich, H.P., see A. Zibold 171 (1990) 151
Golovko, N.I., see V.F. Gantmakher 171 (1990) 223
Goodenough, J.B., see A. Manthiram 171 (1990) 135
Goodman, G.L. and L. Soderholm, Molecular-orbital cluster calculations on $MBa_2Cu_3O_7$ for M = Y, Pr, Nd, Ho and Cm 171 (1990) 528
Goto, T., T. Sugishita and K. Kojima, A new fabrication process of $Y_1Ba_2Cu_4O_8$ superconducting filament by solution spinning method under ambient pressure 171 (1990) 441
Grande, S., see H. Schmiedel 171 (1990) 51
Gromov, A.M., see Yu.A. Ossipyan 171 (1990) 311
Groult, D., see T. Rouillon 171 (1990) 7
Grushko, Yu.S., see Yu.A. Ossipyan 171 (1990) 311
Gumber, P.K., see S.P. Tewari 171 (1990) 147
Gumber, P.K., see S.P. Tewari 171 (1990) 518
Güntherodt, G., see A. Erle 171 (1990) 216
Gupta, L.C., see R. Pinto 171 (1990) 131
Gupta, M., see R.P. Gupta 171 (1990) 465
Gupta, R.P. and M. Gupta, Electronic structure investigation of the relationship between oxygen ordering and superconductivity in $YBa_2Cu_3O_{6.5}$ 171 (1990) 465

Hadjiev, V.G., M.V. Abrashev, M.N. Iliev and L.N. Bozukov, Raman study of hydrogenated $RBa_2Cu_3O_{7-\delta}$ (R=Y, Gd) 171 (1990) 257
Hatta, S., see Y. Ichikawa 171 (1990) 121
Hervieu, M., see T. Rouillon 171 (1990) 7
Hinks, D.G., see J.D. Jorgensen 171 (1990) 93
Hirabayshi, M., see T. Kajitani 171 (1990) 491
Hiraga, K., see T. Kajitani 171 (1990) 491
Hirokawa, K., see Y. Koike 171 (1990) 331
Hirsch, J.E., see F. Marsiglio 171 (1990) 554
Hodeau, J.L., see P. Bordet 171 (1990) 468
Homonnay, Z., see A. Nath 171 (1990) 406
Hosoya, S., see T. Kajitani 171 (1990) 491
Hwang, D.M., see R. Ramesh 171 (1990) 14

Ichikawa, Y., M. Kitabatake, S. Kohiki, S. Hatta, H. Adachi, K. Setsune and K. Wasa, Study on sulfur-substituted Y–Ba–Cu–O thin films 171 (1990) 121
Ichinose, A., see T. Wada 171 (1990) 344
Ichinose, A., T. Wada, Y. Yaegashi, K. Yamaguchi, H. Yamauchi, N. Koshizuka and S. Tanaka, Orthorhombic nonsuperconductor $(Gd, Ce)_4(La, Ba)_4Cu_6O_{17.94}$ 171 (1990) 561
Iliev, M.N., see V.G. Hadjiev 171 (1990) 257
Inam, A., see R. Ramesh 171 (1990) 14
Iqbal, Z., see F.J. Owens 171 (1990) 238
Irkhin, V.Yu., see A.A. Romanyukha 171 (1990) 276
Ishigaki, T., see R. Yoshizaki 171 (1990) 315

Jacowitz, R.D., see C.B. Eom 171 (1990) 354
Jakob, G., see C. Tomé-Rosa 171 (1990) 231
Jang, G.-W., see A. Nath 171 (1990) 406
Jánossy, A., A. Rockenbauer, S. Pekker, G. Oszlányi, G. Faigel and L. Korecz, EPR in Gd-doped $YBa_2Cu_3O_{6+y}$ ($0 \leqslant y \leqslant 1$): local method to determine oxygen ordering 171 (1990) 457
Jérome, D., see F. Barriquand 171 (1990) 348
Jirák, Z., see A.I. Beskrovnyi 171 (1990) 19
Joiner, W.C.H., see B. Roughani 171 (1990) 77
Jorgensen, J.D., S. Pei, P. Lightfoot, D.G. Hinks, B.W. Veal, B. Dabrowski, A.P. Paulikas, R. Kleb and I.D. Brown, Pressure-induced charge transfer and dT_c/dP in $YBa_2Cu_3O_{7-x}$ 171 (1990) 93

Kajitani, T., K. Hiraga, T. Sakurai, M. Hirabayshi, S. Hosoya, T. Fukuda and K. Oh-Ishi, X-ray and neutron single-crystal diffraction study on $La_{1.92}Sr_{0.08}CuO_{4-y}$ 171 (1990) 491
Karabashev, G.S., see N.A. Tulina 171 (1990) 103
Katsnelson, M.I., see A.A. Romanyukha 171 (1990) 276
Kinoshita, K., H. Shibata and T. Yamada, High-pressure synthesis of superconducting $La_{2-x}Ca_{1+x}Cu_2O_{6-x/2+\delta}$ 171 (1990) 523
Kitabatake, M., see Y. Ichikawa 171 (1990) 121
Kleb, R., see J.D. Jorgensen 171 (1990) 93
Kobayashi, N., see Y. Koike 171 (1990) 331
Kohiki, S., see Y. Ichikawa 171 (1990) 121

Koike, Y., H. Sunagawa, T. Noji, M. Masuzawa, N. Kobayashi, M. Namiki, K. Hirokawa and Y. Saito, Normal and superconducting properties of $Pb_2Sr_2Y_{1-x}Ca_xCu_3O_{8+\delta}$. II Dependence on the oxygen concentration 171 (1990) 331
Kojima, K., see T. Goto 171 (1990) 441
Korecz, L., see A. Jánossy 171 (1990) 457
Koren, G., see E. Aharoni 171 (1990) 37
Kortlandt, J., H.S.J. van der Zant, A.J.G. Schellingerhout and J.E. Mooij, Niobium tunnel junction fabrication using e-gun evaporation and SNAP 171 (1990) 513
Koshizuka, N., see A. Ichinose 171 (1990) 561
Koshta, A.A., see A.A. Romanyukha 171 (1990) 276
Koto, K., see T. Saito 171 (1990) 167
Kovalev, M.F., see Yu.A. Ossipyan 171 (1990) 311
Kubota, T., see S.S. Oh 171 (1990) 265
Kulakov, M.P., see N.A. Tulina 171 (1990) 103
Kulakov, V.I., see Yu.A. Ossipyan 171 (1990) 311
Kus, P., see R. Durny 171 (1990) 401
Kwasnitza, K. and Ch. Widmer, Hysteretic effects in the flux-flow state of granular high-T_c superconductors 171 (1990) 211

Laderman, S.S., see C.B. Eom 171 (1990) 354
Lairson, B.M., see C.B. Eom 171 (1990) 354
Łatka, K., A. Szytuła, Z. Tomkowicz, A. Zygmunt and R. Duraj, Investigation of the praseodymium role in superconductivity of $(Eu_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ and related compounds 171 (1990) 287
Lightfoot, P., see J.D. Jorgensen 171 (1990) 93
Lippold, B., see H. Schmiedel 171 (1990) 51
Liu, H.K., see S.X. Dou 171 (1990) 293
Loram, J.W., K.A. Mirza and P.F. Freeman, The electronic specific heat of $YBa_2(Cu_{1-x}Zn_x)_3O_7$ from 1.6 K to 300 K 171 (1990) 243

Maignan, A., see T. Rouillon 171 (1990) 7
Makarov, E.F., see Yu.A. Ossipyan 171 (1990) 311
Manthiram, A., M. Paranthaman and J.B. Goodenough, Properties of the chemically characterized thallium cuprate superconductors 171 (1990) 135
Marezio, M., see P. Bordet 171 (1990) 468
Markiewicz, R.S., Flux creep in high-T_c superconductors: melting or thermal depinning? 171 (1990) 479
Marshall, A.F., see C.B. Eom 171 (1990) 354
Marsiglio, F. and J.E. Hirsch, Hole superconductivity in the dilute limit 171 (1990) 554
Marucco, J.F., see H. Alloul 171 (1990) 419
Marucco, J.F., see P. Mendels 171 (1990) 429
Masuzawa, M., see Y. Koike 171 (1990) 331
Matsumoto, T., see M. Shimoda 171 (1990) 444
Matthews, D.N., G.J. Russell and K.N.R. Taylor, Flux trapping energies in YBCO in the presence of a transport current 171 (1990) 301
Maul, M., see C. Tomé-Rosa 171 (1990) 231
Mayer, G., see H. Schmiedel 171 (1990) 51
Maylybaev, A.T., see Yu.A. Ossipyan 171 (1990) 311
McGinn, P., see S. Sengupta 171 (1990) 174

Mehbod, M., see H. Alloul 171 (1990) 419
Mendels, P., see H. Alloul 171 (1990) 419
Mendels, P., H. Alloul, J.F. Marucco, J. Arabski and G. Collin, Antiferromagnetism in $YBa_2Cu_3O_{6+x}$: Ga and Zn substitutions II. Zero field NMR of the Cu magnetic sites 171 (1990) 429
Michel, C., see T. Rouillon 171 (1990) 7
Miehe, G., T. Vogt, H. Fuess and M. Wilhelm, Localisation of excess oxygen in the high-T_c 2223-phase $Bi_{1.9}Pb_{0.3}Sr_{2.0}Ca_{1.9}Cu_{3.0}O_{10+\delta}$ by neutron powder diffraction 171 (1990) 339
Mirza, K.A., see J.W. Loram 171 (1990) 243
Mizuno, K., see T. Saito 171 (1990) 167
Mizuno, K., see S. Adachi 171 (1990) 543
Molkanov, L.I., see Yu.A. Ossipyan 171 (1990) 311
Mooij, J.E., see J. Kortlandt 171 (1990) 513
Morris, D.E., see M.R. Chandrachood 171 (1990) 187
Morris, D.E., see P.K. Narwankar 171 (1990) 305
Motylewski, T., see M. Braun 171 (1990) 537
Mukhin, S.I., D. Reefman and L.J. de Jongh, Tunneling characteristics of the local-pair superconductor 171 (1990) 42
Müller, K.-H., see N. Savvides 171 (1990) 181
Müller-Vogt, G., see A. Zibold 171 (1990) 151

Namiki, M., see Y. Koike 171 (1990) 331
Narwankar, P.K., D.E. Morris and A.P.B. Sinha, 124 Superconductor stabilized by hole donor (Ca) along with acceptor (La) substitution 171 (1990) 305
Nath, A., Z. Homonnay, S.D. Tyagi, Y. Wei, G.-W. Jang and C.C. Chan, Rupture of cobalt/iron and oxygen bonds in the chain during thermal treatment of $YBa_2Cu_3(^{57}Co)O_{6.0}$: emission Mössbauer studies 171 (1990) 406
Naumenko, I.G., see V.F. Gantmakher 171 (1990) 223
Neminsky, A.M., see V.F. Gantmakher 171 (1990) 223
Nigmatulin, A.S., see N.A. Tulina 171 (1990) 103
Nikolaev, R.K., see N.A. Tulina 171 (1990) 103
Nikolaev, R.K., see Yu.A. Ossipyan 171 (1990) 311
Noji, T., see Y. Koike 171 (1990) 331

Obhi, H.S. and E.K.H. Salje, Effect of the metal-superconductor phase transition and Co doping on the phonon spectra of $YBa_2Cu_3O_{7-\delta}$ 171 (1990) 547
Odier, P., see F. Barriquand 171 (1990) 348
Oh, S.S., T. Kubota and K. Osamura, Annealing temperature dependence of the superconducting properties of Ag-sheathed Bi–Pb–Sr–Ca–Cu–O tapes 171 (1990) 265
Oh-Ishi, K., see T. Kajitani 171 (1990) 491
Ohno, T., see H. Alloul 171 (1990) 419
Oppenheim, U.P., see E. Aharoni 171 (1990) 37
Osamura, K., see S.S. Oh 171 (1990) 265
Ossipyan, Yu.A., O.V. Zharikov, A.M. Gromov, V.I. Kulakov, R.K. Nikolaev, N.S. Sidorov, Yu.S. Grushko, Yu.V. Ganzha, M.F. Kovalev, L.I. Molkanov, E.F. Makarov and A.T. Maylybaev, Mössbauer study of ^{129}I in a high-T_c superconductor $YBa_2Cu_3O_6I_x$ 171 (1990) 311
Oszlányi, G., see A. Jánossy 171 (1990) 457
Ould-Dié, M., see C. Picard 171 (1990) 321

Owens, F.J., Theory of line shape of nonresonant microwave absorption in granular composites of copper oxide superconductors 171 (1990) 25
Owens, F.J. and Z. Iqbal, Time-dependent low field microwave absorption in the high temperature superconductors 171 (1990) 238

Paranthaman, M., see A. Manthiram 171 (1990) 135
Paulikas, A.P., see J.D. Jorgensen 171 (1990) 93
Paulikas, A.P., see H. Claus 171 (1990) 205
Pei, S., see J.D. Jorgensen 171 (1990) 93
Pekker, S., see A. Jánossy 171 (1990) 457
Petinova, A.V., see V.F. Gantmakher 171 (1990) 223
Picard, C., P. Gerdanian and M. Ould-Dié, Coupling between order–disorder phenomena and hole concentrations in $YBa_2Cu_3O_z$ 171 (1990) 321
Pinto, R., L.C. Gupta, R. Vijayaraghavan, A.G. Chourey and V.S. Shirodkar, Cylindrical magnetron sputtering parameters for the growth of $Y_1Ba_2Cu_3O_{7-x}$ thin films 171 (1990) 131
Pooke, D.M., see J.L. Tallon 171 (1990) 61
Prachařová, J., see P. Boháček 171 (1990) 108
Presland, M.R., see J.L. Tallon 171 (1990) 61
Prysłupski, P., see C. Tomé-Rosa 171 (1990) 231
Przydróżny, W., see M. Braun 171 (1990) 537

Ramesh, R., D.M. Hwang, T.S. Ravi, A. Inam, X.D. Wu and T. Venkatesan, Polytypoidic superlattices in Y–Ba–Cu–O thin films 171 (1990) 14
Rao, K.R., see N. Choudhury 171 (1990) 567
Raveau, B., see T. Rouillon 171 (1990) 7
Ravi, T.S., see R. Ramesh 171 (1990) 14
Reefman, D., see S.I. Mukhin 171 (1990) 42
Rockenbauer, A., see A. Jánossy 171 (1990) 457
Rogalla, H., see J. Gao 171 (1990) 126
Romanyukha, A.A., Yu.N. Shvachko, V.Yu. Irkhin, M.I. Katsnelson, A.A. Koshta and V.V. Ustinov, Effects of disordering on local moments in $YBa_2Cu_3O_{7-\delta}$ and $YBa_2(Cu_{1-x}Fe_x)_3O_{7-\delta}$ 171 (1990) 276
Roughani, B., L.C. Sengupta, J.L. Aubel, S. Sundaram and W.C.H. Joiner, Raman spectra of $YBa_2(Cu_{1-x}M_x)_3O_{7-\delta}$ with transition metal dopants of Fe, Co, Ni, and Zn 171 (1990) 77
Rouillon, T., A. Maignan, M. Hervieu, C. Michel, D. Groult and B. Raveau, A "1212" superconductor involving mixed calcium lead $(Pb_{0.5}Ca_{0.5}O)_\infty$ monolayers: $Pb_{0.5}Ca_{0.5}Sr_2Ca_xY_{1-x}Cu_2O_{7-\delta}$ 171 (1990) 7
Russell, G.J., see D.N. Matthews 171 (1990) 301
Russell, G.J., see G. Alvarez 171 (1990) 415

Saito, T., K. Mizuno, H. Watanabe and K. Koto, Substitution effect of $YBa_2Cu_3O_{7-y}$ by Sn 171 (1990) 167
Saito, Y., see Y. Koike 171 (1990) 331
Sakurai, T., see T. Kajitani 171 (1990) 491
Salje, E.K.H., see H.S. Obhi 171 (1990) 547
Santoro, A., see P. Bordet 171 (1990) 468
Savvides, N., S.J. Collocott, C. Andrikidis, K.-H. Müller and E.R. Vance, AC susceptibility, resistivity and specific heat of the cubic superconductor $Ba_{0.6}K_{0.4}BiO_3$ 171 (1990) 181

Schellingerhout, A.J.G., see J. Kortlandt 171 (1990) 513
Schmiedel, H., G. Mayer, S. Grande and B. Lippold, Cu NQR-echo in superconducting $YBa_2Cu_3O_{7-x}$ in a weak external magnetic field 171 (1990) 51
Schmitt, M., see C. Tomé-Rosa 171 (1990) 231
Schneider, J., see R. Wördenweber 171 (1990) 1
Sengupta, L.C., see B. Roughani 171 (1990) 77
Sengupta, S., P. McGinn, N. Zhu and W. Chen, Magnetic relaxation and flux pinning in zone melt textured $YBa_2Cu_3O_{6+x}$ 171 (1990) 174
Sergeenkov, S.A., On fluctuation-induced diamagnetism of a superconductive glass 171 (1990) 438
Setsune, K., see Y. Ichikawa 171 (1990) 121
Setsune, K., see S. Adachi 171 (1990) 543
Sherman, A.V., Energy spectrum of a hole in a two-dimensional antiferromagnet 171 (1990) 395
Shibata, H., see K. Kinoshita 171 (1990) 523
Shimoda, M., Y. Yamada and T. Matsumoto, Photoelectron spectroscopic study of $YBa_2Cu_4O_8$: comparison with $YBa_2Cu_3O_{7-y}$ 171 (1990) 444
Shirodkar, V.S., see R. Pinto 171 (1990) 131
Shvachko, Yu.N., see A.A. Romanyukha 171 (1990) 276
Šíchová, H., see P. Boháček 171 (1990) 108
Sidorov, N.S., see N.A. Tulina 171 (1990) 103
Sidorov, N.S., see Yu.A. Ossipyan 171 (1990) 311
Sinha, A.P.B., see M.R. Chandrachood 171 (1990) 187
Sinha, A.P.B., see P.K. Narwankar 171 (1990) 305
Śliwa, C., see M. Braun 171 (1990) 537
Soderholm, L., see G.L. Goodman 171 (1990) 528
Song, K.H., see S.X. Dou 171 (1990) 293
Srikanth, V., see E.C. Subbarao 171 (1990) 449
Staines, M.P., see J.L. Tallon 171 (1990) 61
Streiffer, S.K., see C.B. Eom 171 (1990) 354
Subbarao, E.C. and V. Srikanth, Acoustic emission and phase transitions in $YBa_2Cu_3O_{7-x}$ 171 (1990) 449
Sugishita, T., see T. Goto 171 (1990) 441
Sun, J.Z., see C.B. Eom 171 (1990) 354
Sunagawa, H., see Y. Koike 171 (1990) 331
Sundaram, S., see B. Roughani 171 (1990) 77
Szytuła, A., see K. Łatka 171 (1990) 287

Taber, R.C., see C.B. Eom 171 (1990) 354
Tallon, J.L., D.M. Pooke, M.P. Staines, M.E. Bowden, N.E. Flower, R.G. Buckley, M.R. Presland and R.L. Davis, Giant enhancement of oxygen mobility in high-T_c superconductors by atomic substitution 171 (1990) 61
Tanaka, S., see T. Wada 171 (1990) 344
Tanaka, S., see A. Ichinose 171 (1990) 561
Taylor, K.N.R., see D.N. Matthews 171 (1990) 301
Taylor, K.N.R., see G. Alvarez 171 (1990) 415
Tewari, S.P. and P.K. Gumber, Effect of plasmons on the critical temperature of lanthanum and yttrium based high temperature superconductors 171 (1990) 147
Tewari, S.P. and P.K. Gumber, Effect of anisotropic phonons on superconductivity 171 (1990) 518

Tomé-Rosa, C., G. Jakob, M. Maul, A. Walkenhorst, M. Schmitt, P. Wagner, P. Prysłupski and H. Adrian, Growth of high quality $YBa_2Cu_3O_7$ films on various substrate materials and influence of Zn-doping on superconductivity 171 (1990) 231
Tomkowicz, Z., see K. Łatka 171 (1990) 287
Trail, S.S., see I.-S. Yang 171 (1990) 31
Trunda, B., see P. Boháček 171 (1990) 108
Tulina, N.A., S.V. Zaitsev, M.P. Kulakov, R.K. Nikolaev, N.S. Sidorov, A.S. Nigmatulin and G.S. Karabashev, Investigation of point-contacts of fresh cleavages from $Bi_2Sr_2CaCu_2O_8$ single crystals 171 (1990) 103
Tyagi, S.D., see A. Nath 171 (1990) 406

Ustinov, V.V., see A.A. Romanyukha 171 (1990) 276

Valvoda, V., see P. Boháček 171 (1990) 108
Vance, E.R., see N. Savvides 171 (1990) 181
Vander Sande, J.B., see W. Gao 171 (1990) 69
Van der Zant, H.S.J., see J. Kortlandt 171 (1990) 513
Varela, A., see P. Bordet 171 (1990) 468
Veal, B.W., see J.D. Jorgensen 171 (1990) 93
Veal, B.W., see H. Claus 171 (1990) 205
Venkatesan, T., see R. Ramesh 171 (1990) 14
Vera, A., see E. Buluggiu 171 (1990) 271
Vijayaraghavan, R., see R. Pinto 171 (1990) 131
Vogt, T., see G. Miehe 171 (1990) 339
Vratislav, S., see A.I. Beskrovnyi 171 (1990) 19

Wada, T., A. Ichinose, H. Yamauchi and S. Tanaka, New families of layered cuprates containing double-MO_2-unit fluorite blocks: $(Ho, Ce)_3Sr_2Cu_3O_{11}$ and $(Ho, Ce)_3Sr_2Cu_2(Cu, M)O_{11}$ (M=Pb, Fe, Al) 171 (1990) 344
Wada, T., see A. Ichinose 171 (1990) 561
Wagner, P., see C. Tomé-Rosa 171 (1990) 231
Walkenhorst, A., see C. Tomé-Rosa 171 (1990) 231
Wang, J., see S.X. Dou 171 (1990) 293
Wasa, K., see Y. Ichikawa 171 (1990) 121
Wasa, K., see S. Adachi 171 (1990) 543
Watanabe, H., see T. Saito 171 (1990) 167
Wei, Y., see A. Nath 171 (1990) 406
Widmer, Ch., see K. Kwasnitza 171 (1990) 211
Wilhelm, M., see G. Miehe 171 (1990) 339
Wördenweber, R., M.O. Abd-El-Hamed and J. Schneider, Mechanism of flux motion in epitaxially grown thin films of $YBa_2Cu_3O_{7-x}$ 171 (1990) 1
Wu, X.D., see R. Ramesh 171 (1990) 14

Yablonskii, D.A., Mean-field theory of magnetic order in cupric oxide 171 (1990) 454
Yaegashi, Y., see A. Ichinose 171 (1990) 561
Yamada, T., see K. Kinoshita 171 (1990) 523
Yamada, Y., see M. Shimoda 171 (1990) 444

Yamaguchi, K., see A. Ichinose 171 (1990) 561
Yamamoto, K., see C.B. Eom 171 (1990) 354
Yamauchi, H., see T. Wada 171 (1990) 344
Yamauchi, H., see A. Ichinose 171 (1990) 561
Yang, I.-S., G. Burns, F.H. Dacol, J.F. Bringley and S.S. Trail, Raman measurements of $Y_{1-x}Eu_xBa_2Cu_3O_7$: Comparison with $Y_{1-x}Pr_xBa_2Cu_3O_7$ 171 (1990) 31
Yang, S., see H. Claus 171 (1990) 205
Yoshizaki, R., J. Fujikami, T. Ishigaki and H. Asano, Substitution effect of rare earth (R) for Ca in the $Bi_2Sr_2Ca_{1-x}R_xCu_2O_{8+y}$ system 171 (1990) 315

Zaitsev, S.V., see N.A. Tulina 171 (1990) 103
Zharikov, O.V., see Yu.A. Ossipyan 171 (1990) 311
Zhu, N., see S. Sengupta 171 (1990) 174
Zibold, A., M. Dürrler, H.P. Geserich, A. Erb and G. Müller-Vogt, Polarized reflectance spectra of a (001) surface of $YBa_2Cu_3O_7$ before and after detwinning 171 (1990) 151
Zygmunt, A., see K. Łatka 171 (1990) 287

Physica C 171 (1990) 593–594
North-Holland

Analytic Subject Index to Volume 171

Acoustic emission
– in $YBa_2Cu_3O_{7-x}$ 449
AC susceptibility of superconductors
– of $Ba_{0.6}K_{0.4}BiO_3$ 181
– of $(Eu_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ 287
– of $YBa_2Cu_3O_{7-\delta}$ (powder) 223
AES
– of $YBa_2Cu_4O_8$ 444
Anisotropic phonon modes 518
Antiferromagnetic order 395, 419, 429
– in CuO 454
Applications of high-T_c superconductors 441
– of Bi–Pb–Sr–Ca–Cu–Ag 69
– of Bi–Pb–Sr–Ca–Cu–O 293
– of Bi–Pb–Sr–Ca–Cu–O tapes 265

BCS model 554
Bose condensation 87, 243

Charge transfer 93, 216
Coherence length
– in $Ba_{0.6}K_{0.4}BiO_3$ 181
Critical current density 479
– in Bi–Pb–Sr–Ca–Cu–O tapes 265
– in (granular) $YBa_2Cu_3O_{7-\delta}$ 211
– in $YBa_2Cu_3O_{6+x}$ 174
– in Y–Ba–Cu–O 301
– of Bi–Pb–Sr–Ca–Cu–O 293
– of $YBa_2Cu_3O_7$ thin films 354
Crystal field
– in $YBa_2Cu_3O_7$ 505
Cu–O chains 216, 276, 406, 457
Cu–O planes 216, 276, 395
– in $YBa_2Cu_3O_7$ 505
– in $YBa_2Cu_3O_{7-\delta}$ 321
Current–voltage characteristics 415

Dopant site 406
Dynamics of the levitating magnet 537

Electrical resistivity 131
– of $Ba_{0.6}K_{0.4}BiO_3$ 181
– of $(Eu_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ 287
– of $La_{2-x}Ca_{1+x}Cu_2O_{6-x/2+\delta}$ 523
Electrical resistivity of Y–Ba–Cu–O:Sn 167
Electronic structure
– of $MBa_2Cu_3O_7$ (M=Y, Pr, Nd, Ho and Cm) 528
– of $Y_{1-x}Eu_xBa_2Cu_3O_7$ 31
– of $YBa_2Cu_3O_{6.5}$ 465
Electron–phonon coupling 518
– in $YBa_2Cu_3O_{7-\delta}$ 223
Epitaxy 231
ESR
– in $YBa_2Cu_3O_{7-\delta}$ (Gd-doped) 457
– of $YBa_2(Cu_{1-x}Fe_x)_3O_{7-\delta}$ 276
– of $YBa_2Cu_3O_{7-\delta}$ 276

Fermi liquid 243
Fluctuation effects 438
Flux creep 479
– in $YBa_2Cu_3O_{6+x}$ 174
– in $YBa_2Cu_3O_7$ 271
Flux lattice
– in $YBa_2Cu_3O_{7-\delta}$ 1
Flux pinning 479
– in Bi–Pb–Sr–Ca–Cu–O 293
Flux pinning in Y–Ba–Cu–O 301
Flux relaxation 238

Glassy state 438, 479
Granular superconductivity 25, 211, 301, 438

Hall effect
– in $Pb_2Sr_2Y_{1-x}Ca_xCu_3O_{8+\delta}$ 331
High pressure effect
– in $YBa_2Cu_3O_{7-x}$ 93
– on $La_{2-x}Ca_{1+x}Cu_2O_{6-x/2+\delta}$ 523
Hole concentration 429
– in hydrogen doped $RBa_2Cu_3O_{7-\delta}$ (R=Y, Gd) (single crystal) 257
– in $Y_{1-x}Ca_xBa_{2-y}La_yCu_4O_8$ 305
– in $YBa_2Cu_3O_{6.5}$ 465
– in $YBa_2Cu_3O_{7-x}$ 93
– in $YBa_2Cu_4O_8$ 444
Hole superconductivity 554
Holons 87
HREM
– of $(Gd,Ce)_4(La,Ba)_4Cu_6O_{17.94}$ 561
– of Y–Ba–Cu–O 14
Hubbard Hamiltonian 498, 554

Infrared spectroscopy
– of $YBa_2(Co_xCu_{1-x})_3O_{7-\delta}$ 547
– of $YBa_2Cu_3O_{7-\delta}$ 37
Interstitial position of Fe(Co)
– in $YBa_2Cu_3(^{57}Co)O_{6.0}$ 406
Irradiation effect of neutrons
– on $YBa_2(Cu_{1-x}Fe_x)_3O_{7-\delta}$ 276
– on $YBa_2Cu_3O_{7-\delta}$ 276

Josephson effect 415, 513

Laser deposition
– of $YBa_2Cu_3O_{7-\delta}$ 37
Local-pair superconductivity 42

Madelung potential 444
Magnetization
– of $YBa_2Cu_3O_{6+x}$ 174
– of $YBa_2Cu_3O_{7-\delta}$ 205
Magnetoresistance 211
Meissner effect
– in $Pb_{0.5}Ca_{0.5}Sr_2Ca_xY_{1-x}Cu_2O_{7-\delta}$ 7
– in $Y_{1-x}Ca_xBa_{2-y}La_yCu_4O_8$ 305
– of $La_{2-x}Ca_{1+x}Cu_2O_{6-x/2+\delta}$ 523
– of Tl–Ba–Ca–Cu–O 543
Microwave absorption 25
– in Re–Ba–Cu–O (Re=Y, Gd, Eu, Nd, Dy, Sm) 401
– in Tl–Pb–Sr–Ca–Cu–O 238
– in $YBa_2Cu_3O_7$ 271
– in Y–Ba–Cu–O 238
Modulated structures
– of $Bi_2(Sr,Ca)_3Cu_2O_{8+y}$ 19
Mössbauer spectroscopy
– of $(Eu_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$ 287
– of $YBa_2Cu_3(^{57}Co)O_{6.0}$ 406
– of $YBa_2Cu_3O_6I_x$ 311
Multilayers 126

Neutron diffraction
– of $Bi_{1.9}Pb_{0.3}Sr_{2.0}Ca_{1.9}Cu_{3.0}O_{10+\delta}$ 339
– of $Bi_2(Sr,Ca)_3Cu_2O_{8+y}$ 19
– of $La_{1.92}Sr_{0.08}CuO_{4-y}$ (single crystal) 491
– of $(La,Tb,Sr)_2CuO_4$ 468
– of $YBa_2Cu_3O_{7-x}$ 93
NMR 419, 429
– in $YBa_2Cu_3{}^{17}O_{7-\delta}$ (single crystal) 348
– in $YBa_2Cu_3O_7$ 505
Normal-state properties
– of $Pb_2Sr_2Y_{1-x}Ca_xCu_3O_{8+\delta}$ 331

- of $YBa_2(Cu_{1-x}Zn_x)_3O_7$ 243
- of $YBa_2Cu_3O_{7-x}$ 51

NQR
- in $YBa_2Cu_3{}^{17}O_{7-\delta}$ (single crystal) 348
- of $YBa_2Cu_3O_{7-x}$ 51

Of Y–Ba–CuO 187
OI–OII transition
- in $YBa_2Cu_3O_{7-x}$ 449

Optical reflectivity 151
O–T transition
- in $Pb_2Sr_2Y_{1-x}Ca_xCu_3O_{8+\delta}$ 331
- in $YBa_2Cu_3O_{7-\delta}$ 321

Oxygen ordering
- in $YBa_2Cu_3O_{6.5}$ 465
- in $YBa_2Cu_3O_{7-\delta}$ 457
- in $YBa_2Cu_3O_{7-x}$ 449

Oxygen ordering effects
- in $YBa_2Cu_3O_{7-\delta}$ 205

Oxygen stoichiometry 61, 419, 429
- in $Bi_{1.9}Pb_{0.3}Sr_{2.0}Ca_{1.9}Cu_{3.0}O_{10+\delta}$ 339
- in $Bi_2(Sr,Ca)_3Cu_2O_{8+\gamma}$ 19
- in $Pb_2Sr_2Y_{1-x}Ca_xCu_3O_{8+\delta}$ 331
- in Tl–Ba–Ca–Cu–O 135
- in $YBa_2(Cu_{1-x}Fe_x)_3O_{7-\delta}$ 276
- in $YBa_2Cu_3O_{7-\delta}$ 156, 276
- in $YBa_2Cu_3O_{7-\delta}$ single crystals 205

Pair breaking 243
Penetration depth
- in $YBa_2Cu_3O_{7-\delta}$ (powder) 223

Phase diagram 419
Phonon-coupling mechanism 567
- in $YBa_2(Co_xCu_{1-x})_3O_{7-\delta}$ 547

Phonon mechanism 518
Phonon spectrum
- of La_2CuO_4 567
- of La_2NiO_4 567
- of $YBa_2(Cu_{1-x}M_x)_3O_{7-\delta}$ (M=Fe, Co, Ni, Zn) 77

Pinning force
- in $YBa_2Cu_3O_{6+x}$ 174

Plasmon mechanism 147
Point-contact 103
Pseudo gap 42

Raman scattering 77, 216
- of hydrogen doped $RBa_2Cu_3O_{7-\delta}$ (R=Y, Gd) (single crystal) 257
- of $Y_{1-x}Eu_xBa_2Cu_3O_7$ 31

Scanning electron microscopy 131
Shapiro step 415
Single-crystal growth 151
Specific heat
- of $YBa_2(Cu_{1-x}Zn_x)_3O_7$ 243

Specific heat, low-T
- of $Ba_{0.6}K_{0.4}BiO_3$ 181

Spin fluctuations 498
Sputtering magnetron 131
SQUID 126
Structural phase transition
- in $(La,Tb,Pb)_2CuO_4$ 468

Structure
- of $Bi_{1.9}Pb_{0.3}Sr_{2.0}Ca_{1.9}Cu_{3.0}O_{10+\delta}$ 339
- of $Bi_2Sr_2Ca_{1-x}R_xCu_2O_{8+y}$ 315
- of $Bi_2(Sr,Ca)_3Cu_2O_{8+\gamma}$ 19
- of Bi–Pb–Sr–Ca–Cu–Ag 69
- of Bi–Sr–Ca–Cu–O 108
- of CuO 454
- of $(Gd,Ce)_4(La,Ba)_4Cu_6O_{17.94}$ 561
- of $(Ho,Ce)_3Sr_2Cu_2(Cu,M)O_{11}$ (M=Pb, Fe, Al) 344
- of $(Ho,Ce)_3Sr_2Cu_3O_{11}$ 344
- of $La_{1.92}Sr_{0.08}CuO_{4-y}$ 491
- of $(La,Tb,Pb)_2CuO_4$ 468
- of $(La,Tb,Sr)_2CuO_4$ 468
- of $Pb_{0.5}Ca_{0.5}Sr_2Ca_xY_{1-x}Cu_2O_{7-\delta}$ 7
- of Tl–Ba–Ca–Cu–O 135
- of $YBa_2Cu_3O_7$ thin films 354

Structure at high oxygen pressure 187
Substitution effects 61, 498
- in Tl–Ba–Ca–Cu–O 135
- in Y–Ba–Cu–O 121
- of Fe in $YBa_2Cu_3O_{7-\delta}$ 276
- of Sn in $YBa_2Cu_3O_{7-\gamma}$ 167
- of $YBa_2(Cu_{1-x}M_x)_3O_{7-\delta}$ (M=Fe, Co, Ni, Zn) 77

Substitution effects of Ca and La
- in Y–Ba–Cu–O 305

Substitution effects of Co
- in $YBa_2Cu_3O_{7-\delta}$ 216

Substitution effects of Ga and Zn
- in $YBa_2Cu_3O_{7-\delta}$ 419, 429

Substitution effects of rare earth (R)
- in $Bi_2Sr_2Ca_{1-x}R_xCu_2O_{8+y}$ 315

Substitution effects of Zn
- in $YBa_2Cu_3O_7$ 231

Substrates 231
Superlattices
- in Y–Ba–Cu–O 14

Surface impedance
- of $YBa_2Cu_3O_7$ thin films 354

Synthesis
- of Bi–Pb–Sr–Ca–Cu–Ag 69
- of Bi–Sr–Ca–Cu–O 108
- of $(Ho,Ce)_3Sr_2Cu_2(Cu,M)O_{11}$ (M=Pb, Fe, Al) 344
- of $(Ho,Ce)_3Sr_2Cu_3O_{11}$ 344
- of $La_{2-x}Ca_{1+x}Cu_2O_{6-x/2+\delta}$ 523
- of $Pb_{0.5}Ca_{0.5}Sr_2Ca_xY_{1-x}Cu_2O_{7-\delta}$ 7
- of Tl–Ba–Ca–Cu–O 135, 543
- of $Y_1Ba_2Cu_4O_8$ (filament) 441
- of $YBa_2Cu_{37-\delta}$ (single crystal) 348
- of $YBa_2Cu_3O_7$ thin films 354
- of Y–Ba–Cu–O 61

Synthesis at high oxygen pressure
- of Y–Ba–CuO 187

T_c and unit-cell parameters
- of $Bi_2Sr_2Ca_{1-x}R_xCu_2O_{8+y}$ 315

Textured microstructure 265
Thermoelectric power
- of $YBa_2Cu_3O_{7-\delta}$ 321

Thin films 513
- of Re–Ba–Cu–O (Re=Y, Gd, Eu, Nd, Dy, Sm) 401
- of $Y_1Ba_2Cu_3O_{7-x}$ 131
- of $YBa_2Cu_3O_7$ 354
- of $YBa_2Cu_3O_7$ (epitaxial) 231
- of $YBa_2Cu_3O_{7-\delta}$ 37
- of Y–Ba–Cu–O 14, 121

T–J Hamiltonian 395
Trivalent copper
- in $YBa_2Cu_3O_{7-\delta}$ 156

Tunneling 42, 513
Tunneling of voltage–current characteristics 1
Tunneling spectroscopy
- of $Bi_2Sr_2CaCu_2O_8$ 103

Twin boundaries 151

Weak links 25

XPS
- of $YBa_2Cu_4O_8$ 444
- of Y–Ba–Cu–O 121

Physica C 171 (1990) 595–596
North-Holland

Materials Index to Volume 171

$Ba_{0.6}K_{0.4}BiO_3$
– AC susceptibility of superconductors 181
– coherence length 181
– electrical resistivity 181
– specific heat, low-T 181
$Bi_{1.9}Pb_{0.3}Sr_{2.0}Ca_{1.9}Cu_{3.0}O_{10+\delta}$
– neutron diffraction 339
– oxygen stoichiometry 339
– structure 339
$Bi_2Sr_2Ca_{1-x}R_xCu_2O_{8+y}$
– structure 315
– substitution effects of rare earth (R) 315
– T_c and unit-cell parameters 315
$Bi_2Sr_2CaCu_2O_8$
– tunneling spectroscopy 103
$Bi_2(Sr,Ca)_3Cu_2O_{8+y}$
– modulated structures 19
– neutron diffraction 19
– oxygen stoichiometry 19
– structure 19
Bi–Pb–Sr–Ca–Cu–Ag
– applications of high-T_c superconductors 69
– structure 69
– synthesis 69
Bi–Pb–Sr–Ca–Cu–O
– applications of high T_c superconductors 265, 293
– critical current density 265, 293
– flux pinning 293
Bi–Sr–Ca–Cu–O
– structure 108
– synthesis 108

$(Eu_{1-x}Pr_x)Ba_2Cu_3O_{7-\delta}$
– AC susceptibility of superconductors 287
– electrical resistivity 287
– Mössbauer spectroscopy 287

$(Gd,Ce)_4(La,Ba)_4Cu_6O_{17.94}$
– HREM 561
– structure 561
(granular) $YBa_2Cu_3O_{7-\delta}$
– critical current density 211

$(Ho,Ce)_3Sr_2Cu_2(Cu,M)O_{11}$
– structure 344
– synthesis 344
$(Ho,Ce)_3Sr_2Cu_3O_{11}$
– structure 344
– synthesis 344

$La_{1.92}Sr_{0.08}CuO_{4-y}$
– neutron diffraction 491
– structure 491
La_2CuO_4
– phonon spectrum 567
La_2NiO_4
– phonon spectrum 567
$La_{2-x}Ca_{1+x}Cu_2O_{6-x/2+\delta}$
– electrical resistivity 523
– high pressure effect 523
– Meissner effect 523
– synthesis 523
$(La,Tb,Pb)_2CuO_4$
– structural phase transition 468
– structure 468
$(La,Tb,Sr)_2CuO_4$
– neutron diffraction 468
– structure 468

$MBa_2Cu_3O_7$
– electronic structure 528

$Pb_{0.5}Ca_{0.5}Sr_2Ca_xY_{1-x}Cu_2O_{7-\delta}$
– Meissner effect 7
– structure 7
– synthesis 7
$Pb_2Sr_2Y_{1-x}Ca_xCu_3O_{8+\delta}$
– Hall effect 331
– normal-state properties 331
– O–T transition 331
– oxygen stoichiometry 331

$RBa_2Cu_3O_{7-\delta}$
– hole concentration 257
– Raman scattering 257
Re–Ba–Cu–O
– microwave absorption 401
– thin films 401

Tl–Ba–Ca–Cu–O
– Meissner effect 543
– oxygen stoichiometry 135
– structure 135
– substitution effects 135
– synthesis 135, 543
Tl–Pb–Sr–Ca–Cu–O
– microwave absorption 238

$Y_1Ba_2Cu_3O_{7-x}$
– thin films 131
$Y_1Ba_2Cu_4O_8$
– synthesis 441
$Y_{1-x}Ca_xBa_{2-y}La_yCu_4O_8$
– hole concentration 305
– Meissner effect 305
$Y_{1-x}Eu_xBa_2Cu_3O_7$
– electronic structure 31
– Raman scattering 31
$YBa_2(Co_xCu_{1-x})_3O_{7-\delta}$
– infrared spectroscopy 547
– phonon-coupling mechanism 547
$YBa_2(Cu_{1-x}Fe_x)_3O_{7-\delta}$
– ESR 276
– irradiation effect of neutrons 276
– oxygen stoichiometry 276
$YBa_2(Cu_{1-x}M_x)_3O_{7-\delta}$
– phonon spectrum 77
– substitution effects 77
$YBa_2(Cu_{1-x}Zn_x)_3O_7$
– normal state properties 243
– specific heat 243
$YBa_2Cu_3{}^{17}O_{7-\delta}$
– NMR 348
– NQR 348
$YBa_2Cu_3(^{57}Co)O_{6.0}$
– interstitial position of Fe(Co) 406
– Mössbauer spectroscopy 406
$YBa_2Cu_{37-\delta}$
– synthesis 348
$YBa_2Cu_3O_{6+x}$
– critical current density 174
– flux creep 174
– magnetization 174
– pinning force 174
$YBa_2Cu_3O_{6.5}$
– electronic structure 465
– hole concentration 465
– oxygen ordering 465
$YBa_2Cu_3O_6I_x$
– Mössbauer spectroscopy 311
$YBa_2Cu_3O_7$
– critical current density 354